SUSS ITUTE MODIFIED)	FORM PTO-1449		TMENT OF COMMERCE D TRADEMARK OFFICE	Serial I		l No.	10/61	3,765	5
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Applicants Filing Date Group IDS Filed		Frederick M. Ausubel et a July 2, 2003 1649			
(37 CFR §1.98(b))									
				Custon	ner No.		21559	•	
			U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee		Class	Sub	dass		Filing Date Appropriate)
95	5,237,056	08/17/93	Fischbach		536	23.5	5	05/	29/91
40	5,571,706	11/5/96	Baker et al.		435	172	2.3	06/	/17/94
	FORE	IGN PATENT (OR PUBLISHED FOREIGN	PATEN	APPLIC	ATION	-		
Examiner's Initials	Document Number	Publication Date	Country of Patent Offi		Cla	ss	Subdas	s	Translation (Yes/No)
98	WO90/12097	10/18/90	PCT						
1	WO91/15585	10/17/91	PCT						
	0 544 250 A2	06/02/93	Europe				-		
	WO93/11241	06/10/93	PCT						
	WO95/18230	07/06/95	РСТ						
	WO95/28423	10/26/95	PCT	•					
	WO95/29238	11/02/95	PCT .						
	WO95/31564	11/23/95	PCT						
	WO95/31560	11/23/95	PCT						
V	0 686 696 A1	12/13/95	Europe						
QR.	WO95/35024	12/28/95	PCT						
7	OTHER DOCU	MENTS (INCLI	JDING AUTHOR, TITLE, D	ATE, PL	ACE OF	PUBLI	CATION)	
Ofs	Arlat et al., "PopA Secreted via the I	1, a Protein wh Irp Pathway of	ich Induces a Hypersensiti Pseudomonas solanacear	vity-Like um," EMI	Respons BO J. 13:	e on Sp 543-55	ecific P	etunia).	Genotypes, Is
	Ausubel et al., "U Pathogens," Proc	se of Arabidops . Natl. Acad. So	sis thaliana Defense-Relate ci. USA 92:4189-4196 (199	d Mutant 5).	s to Diss	ect the	Plant R	espor	nse to
V	Baker et al., "Isolation of the Tobacco Mosaic Virus Resistance Gene N," Advances in Molecular Genetics of Plant-Microbe Interactions 3:297-302 (1994).								
76	Bent et al., "RPS2 of Arabidopsis thaliana: A Leucine-Rich Repeat Class of Plant Disease Resistance Genes," Science 265:1856-1860 (1994).								
XAMINER	helit	(CSm	DATE CO	NSIDER	ED.	2 · 2	0.	06	

ŧ

4

Sheet 2 of 5

			Sileet 2 (
SUBSTITUTE (MODIFIED)	FORM PTO-1449 U.S. DEPARTMENT OF CO		No. 00786/254005		
(MODIFIED) PATENT AND TRADEMARK OF		Serial No.	10/613,765		
	INFORMATION DISCLOSURE	Applicants	Frederick M. Ausubel et a		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date	July 2, 2003		
		Group	1649		
		IDS Filed			
		Customer No.	21559		
	OTHER DOCUMENTS (INCLUDING AUTH	OR, TITLE, DATE, PLACE OF P	UBLICATION)		
Yo	Bunz et al., "cDNAs Encoding the Large Subunit of Human Replication Factor C," <i>Proc. Natl. Acad. Sci.</i> 90:11014-11018 (1993).				
	Burbelo et al., "Cloning of the Large Subunit of Bacterial DNA Ligases," Proc. Natl. Acad. Sci.	Activator 1 (Replication Factor USA 90:11543-11547 (1993).	C) Reveals Homology with		
	Carmona et al., "Expression of the Alpha-Thionin Gene from Barley in Tobacco Confers Enhance Resistance to Bacterial Pathogens," <i>The Plant Journal</i> 3:457-462 (1993).				
	Chasan, "Meeting Report: Plant-Pathogen Encounters in Edinburgh," The Plant Cell 10:1332-1341 (1994).				
	Comelissen et al., "Strategies for Control of Fungal Diseases with Transgenic Plants," Plant Physiology 101:709-712 (1993).				
	Dalrymple et al., "Cloning and Characterisation of cDNA Clones Encoding Two Babesia bovis Proteins with Homologous Amino- and Carboxy-Terminal Domains," Molecular and Biochemical Parasitology 59:181-190 (1993). Dean, "Advantages of Arabidopsis for Cloning Plant Genes," Phil. Trans. R. Soc. Lond. 342:189-195 (1993). Dinesh-Kumar et al., "Transposon Tagging of Tobacco Mosaic Virus Resistance Gene N: Its Possible Role in the TMV-N- Mediated Signal Transduction Pathway," Proc. Natl. Acad. Sci. USA 92:4175-4180 (1995). Dong et al., "Induction of Arabidopsis Defense Genes by Virulent and Avirulent Pseudomonas syringae Strains and by a Cloned Avirulence Gene," The Plant Cell 3:61-72 (1991). Ellingboe, "Changing Concepts in Host-Pathogen Genetics," Ann. Rev. Phytophathol. 19:125-143 (1981). Ellis et al., "Contrasting Complexity of Two Rust Resistance Loci in Flax," Proc. Natl. Acad. Sci. USA 92:4185-4188 (1995).				
A. P. C.					
BCCCACO					
REAL PACKET					
	Flor, "Current Status of the Gene-for-Gene Cor	ncept," Ann. Rev. Phytopathol. 9	:275-296 (1971).		
	Gabriel et al., "Gene-for-Gene Interactions of Five Cloned Avirulence Genes from Xanthomonas campestris vs. Malvacearum with Specific Resistance Genes in Cotton," Proc. Natl. Acad. Sci. USA 83:6415-6419 (1986).				
	Gabriel, "Working Models of Specific Recognition in Plant-Microbe Interactions," Annu. Rev. Phytopathol. 28:365-391 (1990).				
V	Gill et al., "A New Cell Division Operon in Esch	nerichia coli," Mol. Gen. Genet. 2	05:134-145 (1986).		
95	Giri et al., "Genomic Structure of the Cottontail Rabbit (Shope) Papillomavirus," <i>Proc. Natl. Acad. Sci. USA</i> 82:1580-1584 (1985).				
EXAMINER	antitle C mm	DATE CONSIDERED	3.20.06		

Sheet 3 of 5

	1	Sheet 3 of			
SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE	•	00786/254005			
(MODIFIED) PATENT AND TRADEMARK OFFICE	Serial No.	10/613,765			
	Applicants	Frederick M. Ausubel et al.			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Filing Date				
(Use several sheets if necessary)	Group	July 2, 2003			
(37 CFR §1.98(b))	IDS Filed	1649			
(0) 0) 11 (3) (0))					
	Customer No.	21559			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE,		L CATION)			
Gould et al., "Use of the DNA Polymerase Chain Reaction Genomic Clones Encoding the Iron-Sulfur Protein of Succ Natl. Acad. Sci. USA 86:1934-1938 (1989).	for Homology Probing: Iso inate Dehydrogenase from	olation of Partial cDNA or Several Species," Proc.			
Hahn et al., "Cultivar-Specific Elicitation of Barley Defense Rhynchosporium secalis," Molecular Plant Microbe Intera	Hahn et al., "Cultivar-Specific Elicitation of Barley Defense Reactions by the Phytotoxic Peptide NIP1 from Rhynchosporium secalis," Molecular Plant Microbe Interactions 6:745-754 (1993).				
Innes et al., "Molecular Analysis of Avirulence Gene avrR _i Sequence Common to all Known Pseudomonas syringae (1993).	Innes et al., "Molecular Analysis of Avirulence Gene avrRpt2 and Identification of a Putative Regulatory Sequence Common to all Known Pseudomonas syringae Avirulence Genes," J. Bacteriol. 175:4859-4869 (1993).				
Johal et al., "Reductase Activity Encoded by the HM1 Dise 987 (1992).	Johal et al., "Reductase Activity Encoded by the <i>HM1</i> Disease Resistance Gene in Maize," <i>Science</i> 258:98 987 (1992).				
Joosten et al., "Host Resistance to a Fungal Tomato Patho Avirulence Gene," <i>Nature</i> 367:384-386 (1994).	Joosten et al., "Host Resistance to a Fungal Tomato Pathogen Lost by a Single Base-Pair Change in an Avirulence Gene," Nature 367:384-386 (1994).				
Keen, "Host Range Determinants in Plant Pathogens and	Keen, "Host Range Determinants in Plant Pathogens and Symbiots," <i>Ann. Rev. Microbiol.</i> 42:421–440 (1988). Keen, "Plant Disease Resistance Genes: Interactions with Pathogens and their Improved Utilization to Control Plant Diseases," <i>Biotechnology in Plant Disease Control</i> 65-88 (1993). Keen, "The Molecular Biology of Disease Resistance," <i>Plant Molecular Biology</i> 19:109-122 (1992). Kobayashi et al., "A Gene from <i>Pseudomonas syringae</i> pv. Glycinea with Homology to Avirulence Gene <i>D</i> from <i>P. s.</i> pv. Tomato but Devoid of the Avirulence Phenotype," <i>Molecular Plant-Microbe Interac.</i> 3:103-111 (1990).				
Keen, "Plant Disease Resistance Genes: Interactions with Plant Diseases," Biotechnology in Plant Disease Control 6					
Keen, "The Molecular Biology of Disease Resistance," Pla					
Kobayashi et al., "A Gene from <i>Pseudomonas syringae</i> pv <i>P</i> . s. pv. Tomato but Devoid of the Avirulence Phenotype,"					
Kobayashi et al., "Molecular Characterization of Avirulence Molecular Plant-Microbe Interactions 3:94-102 (1990).	Kobayashi et al., "Molecular Characterization of Avirulence Gene D from Pseudomonas syringae pv. Tomato," Molecular Plant-Microbe Interactions 3:94-102 (1990).				
Kunkel et al., "RPS2, an Arabidopsis Disease Resistance syringae Strains Expressing the Avirulence Gene avrRpt2,	Kunkel et al., "RPS2, an Arabidopsis Disease Resistance Locus Specifying Recognition of Pseudomonas syringae Strains Expressing the Avirulence Gene avrRpt2," The Plant Cell 5:865-875 (1993).				
Lamb et al., "Emerging Strategies for Enhancing Crop Res 10:1436-1445 (1992).	Lamb et al., "Emerging Strategies for Enhancing Crop Resistance to Microbial Pathogens," Bio Technology 10:1436-1445 (1992).				
Lister et al., "Recombinant Inbred Lines for Mapping RFLP The Plant Journal 4:745-750 (1993).	Lister et al., "Recombinant Inbred Lines for Mapping RFLP and Phenotypic Markers in <i>Arabidopsis thaliana</i> ," <i>The Plant Journal</i> 4:745-750 (1993).				
Lu et al., "Cloning And Expression of a Novel Human DNA Biophysical Research Communications 193(2):779-786 (1)	Binding Protein, PO-GA,"	Biochemical and			
	ONSIDERED 3/6	20/06			
EXAMINER: Initial citation considered. Draw line through citation if not in c form with the next communication to applicant.	onformance and not consider	dered. Include copy of this			

Sheet 4 of 5

			Sheet 4 of		
SUBSTITUTE (MODIFIED)	FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attorney Docket No.	00786/254005		
(most les)		Serial No.	10/613,765		
	INFORMATION DISCLOSURE	Applicants	Frederick M. Ausubel et al.		
STATEMENT BY APPLICANT (Use several sheets if necessary)		Filing Date			
		Group	July 2, 2003		
(37 CFR §1.98	3(b))	IDS Filed	1649		
		Customer No.	21559		
	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE,	DATE, PLACE OF PUBLIC	ATION)		
do	Mahon et al., "The Small Cardioactive Peptides A and B of Molecule," Proc. Natl. Acad. Sci. USA 82:3925-3929 (1985)	Aplysia are Derived from a 5).	Common Precursor		
	Martin et al., "Map-Based Cloning of a Protein Kinase Gene Conferring Disease Resistance in Tomato," Science 262:1432-1436 (1993).				
	Mevarech et al., "Nucleotide sequence of a cyanobacterial Natl. Acad. Sci. USA 77:6476-6480 (1980).	nifH Gene Coding for Nitro	genase Reductase," Proc.		
	Midland et al., "The Structures of Syringolides 1 and 2, Novel C-Glycosidic Elicitors from <i>Pseudomonas syringae</i> pv. Tomato," <i>J. Org. Chem.</i> 58:2940-2945 (1993).				
	Mindrinos et al., "The A. Thaliana Disease Resistance Gene RPS2 Encodes a Protein Containing a Nucle Binding Site and Leucine-Rich Repeats," Cell 78:1089-1099 (1994).				
	Myers et al., "The Human Mid-Size Neurofilamet Subunit: a Repeat Protein Sequence and the Relationship its Gene to the Intermediate Filament Gene Family," <i>EMBO J.</i> 6:1617-1626 (1987).				
	Newman et al., "Genes Galore: A Summary of Methods for Accessing Results from Large-Scale Partial Sequencing of Anonymous Arabidopsis cDNA Clones," <i>Plant Physiol.</i> 106:1241-1255 (1994).				
	Phillips et al., "A. thaliana Transcribed Sequence; Clone TASG104, 5' End," EMBL Sequence Accession 217993 (1992).				
	Polzar et al., "Nucleotide Sequence of a Full Length cDNA Clone Encoding the Deoxyribonuclease I From the Rat Parotid Gland," Nucleic Acids Research 18:7151 (1990).				
	Rust et al., "Mutagenically Separated PCR (MS-PCR): A Highly Specific One Step Procedure for Easy Muta Detection," Nucleic Acids Research 21:3623-3629 (1993).				
	Sasaki et al., "Toward Cataloguing all Rice Genes: Large-Scale Sequencing of Randomly Chosen Rice cD From a Callus cDNA Library," <i>The Plant Journal</i> 6:615-624 (1994) and GenBank listing D15211.				
	Staskawicz et al., "Molecular Characterization of Cloned Avirulence Genes from Race 0 and Race 1 of Pseudomonas syringae pv. Glycinea," J. Bacteriol. 169:5789-5794 (1987).				
	Staskawicz et al., "Genetic Analysis of Bacterial Disease Resistance in Arabidopsis and Closing of the RPS2 Resistance Gene," Curr. Plant Sci. Biotechnol. Agric. 21:283-288 (1994).				
1	Staskawicz et al., "Genetic Dissection of Bacterial Disease Resistance," J. Cellular Biochemistry Supplement 18a:75 (1994) Abstract.				
96	Stotz et al., "Molecular Characterization of a Polygalacturor Plant Physiol. 102:133-138 (1993).	nase Inhibitor from Pyrus co	ommunis L. cv Bartlett,"		
EXAMINER: In		ONSIDERED 3.2	9.0%		
form with the n	itial citation considered. Draw line through ditation if not in α ext communication to applicant.	ontormance and not conside	ered. Include copy of this		

Sheet 5 of 5

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	Attomey Docket No.	00786/254005			
(MODII ILD)	TATELLI AND TRADEMARK OFFICE	Serial No.	10/613,765			
INFORMATI	ON DISCLOSURE	Applicants	Frederick M. Ausubel et al.			
STATEMEN	T BY APPLICANT sheets if necessary)	Filing Date	July 2, 2003 1649			
(036 36461413	nices ii licoessary)	Group				
(37 C.F.R. §1.98(b))		IDS Filed				
		Customer No.	21559			
OTHER DOCU	MENTS (INCLUDING AUTHOR, TITLE, D	DATE, PLACE OF PUBL	ICATION)			
Van den Ackervel Cladosporium fulv	Van den Ackerveken et al., "Molecular Analysis of the Avirulence Gene avr9 of the Fungal Tomato Pathogen Cladosporium fulvum Fully Supports the Gene-for-Gene Hypothesis," The Plant Journal 2:359-366 (1992).					
Wanner et al., "Re Arabidopsis thalia	Wanner et al., "Recognition of the Avirulence Gene avrB from Pseudomonas syringae pv. Glycinea by Arabidopsis thaliana," Molecular Plant-Microbe Interactions 6:582-591 (1993).					
Whalen et al., "Ide Determining Aviru	Whalen et al., "Identification of Pseudomonas syringae Pathogens of Arabidopsis and a Bacterial Locus Determining Avirulence on both Arabidopsis and Soybean," The Plant Cell 3:49-59 (1991).					
Whitham et al., "T Interleukin-1 Rece	Whitham et al., "The Product of the Tobacco Mosalc Virus Resistance Gene N: Similarity to Toll and the Interleukin-1 Receptor," Cell 78:1101-1115 (1994).					
Whitham et al., "N U15605 (1994).	Whitham et al., "Nicotiana glutinosa Virus Resistance (N) Gene, Complete cds" EMBL Sequence Accession No. U15605 (1994).					
Wilson et al., "2.2 38 (1994) and Ger	Wilson et al., "2.2 Mb of Contiguous Nucleotide Sequence form Chromosome III of C. elegans," Nature 368:32-38 (1994) and GenBank listing U56963.					
Yu et al., "Arabido Strains Expressing	Yu et al., "Arabidopsis Mutations at the RPS2 Locus Result in Loss of Resistance to Pseudomonas syringae Strains Expressing the Avirulence Gene avrRpt2," Molecular Plant-Microbe Interactions 6:434-443 (1993).					
EXAMINER CANALO		NSIDERED	Ö			
EXAMINER: Initial citation conside form with the next communication	red. Draw line through citation if not in coto applicant.	onformance and not cons	sidered. Include copy of this			